

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. **(Original)** A condensation heat exchanger, associated with a gas or fuel-oil burner (6), which comprises at least one tube bundle (2) through which a fluid to be heated, in particular cold water, circulates and which is mounted inside a gas-impermeable jacket (1) has a flue-gas evacuation sleeve (122), characterized in that said jacket (1) has a wall portion having the configuration of a compartment (11, 12) accommodating a gas/air heat exchanger/recuperator (9) capable of recovering some of the heat conveyed by the flue gases leaving the tube bundle (2) and channeled toward the exit sleeve (122) in order to transfer it to air captured outside the exchanger, means such as a fan (V) also being provided in order to transfer the air heated by said gas/air heat recuperator (9) to the entrance of said burner (6).

2. **(Original)** A condensation heat exchanger, associated with a gas or fuel-oil burner (6), which comprises two coaxial tube bundle (2a, 2b) placed end-to-end, one of which acts as primary exchanger and the other of which acts as secondary exchanger, each of these bundles consisting of a tube or of a group of tubes arranged end-to-end, forming a helical coil, in which the wall of the tube(s) is produced from a material that is a good conductor of heat and has a flattened, oval cross section, the major axis of which is perpendicular or approximately perpendicular to the axis (X-X') of the helix, while the width of the gap separating two adjacent turns is constant and, particularly, smaller than the thickness of said cross section, said bundles (2a, 2b) being mounted securely inside a gas-impermeable jacket (1), means being provided in order to circulate at least one fluid to be heated, in particular cold water, inside the tube(s) forming said bundles (2a, 2b), said jacket (1) having a burnt-gas-evacuation sleeve (122), the exchanger being arranged such that the hot gases generated by the burner (6) flow radially, or approximately radially, through said bundles, passing through the gaps separating its turns, a deflection plate (7) also being interposed between these two bundles and arranged in such a manner that the hot gases generated by the burner

first flow through the primary exchanger (2a), flowing through the gaps separating its turns from the inside to the outside, then the secondary exchanger (2b), flowing through the gaps separating its turns from the outside to the inside, after which they are evacuated to the outside via said sleeve (122), characterized in that said jacket (1) has a wall portion having the configuration of a compartment (11, 12) and in that the condensation exchanger is provided with an additional gas/air heat exchanger/recuperator (9) that is inserted inside said compartment (11, 12) and is adapted for recovering some of the heat conveyed by the still-hot gases circulating between the secondary exchanger and the exit sleeve (122) and transferring it to air captured outside the exchanger, means such as a fan (V) also being provided in order to transfer the air heated by this gas/air heat recuperator (9) to the entrance of said burner (6).

3.-15. **(Canceled)**